ABSTRACT OF THE DISCLOSURE

Systems and methods are described for a load/store micropacket handling system. A method includes interconnecting a compute node with a shared memory node; translating a processor instruction into an interconnect command; transforming the interconnect command

5   into a direct memory access interconnect command; transmitting the direct memory access interconnect command via a link medium; and performing an operation defined by the direct memory access interconnect command. An apparatus includes a computer network, including: a compute node, having: a compute node interconnect interface unit; and a compute node interconnect adapter; a link medium, coupled to the compute node; and a shared memory

10   node, coupled to the link medium, having: a shared memory node interconnect interface unit; and a shared memory node interconnect adapter.